

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   5
AMENDMENT/MODIFICATION NO. <b>64</b>	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office - ODIN - OP-MS Kennedy Space Center, FL 32899	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)  OAO Corporation 7500 Greenway Center Drive Greenbelt MD 20770		(x) 9A. AMENDMENT OF SOLICITATION NO.	
		9B. DATED (SEE ITEM 11)	
		10A. MODIFICATION OF CONTRACT/ORDER NO.  <b>NAS5-98144/CC90303B</b>	
		10B. DATED (SEE ITEM 13)  December 1, 2001	
CODE	FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<p>[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:</p> <p>(a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>			
12. ACCOUNTING AND APPROPRIATION DATA (If required)			

THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<b>X</b>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>NAS5-98144 Contract Clause C.7 Technology Refreshment Process and FAR Clause 52.212-4 Contract Terms and Conditions-Commercial Items, (c) Changes</b>
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [X] is required to sign this document and return 1 copies to the issuing office.

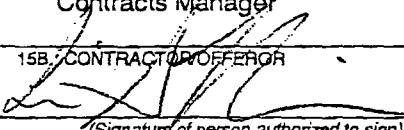
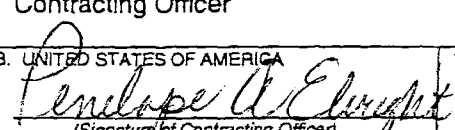
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, Including solicitation/contract subject matter where feasible.)

**Stennis Space Center --- ODIN SERVICES**

Technology Infrastructure: SWR BB53 3010 00 Rev 2 and BB53 3010 01 Rev 1

Change in Delivery Order Price: \$34,987.00 (INCREASE)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Lisa A. Nicholson Contracts Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Penelope A. Ebright Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)
15C. DATE SIGNED 10-28-02	16C. DATE SIGNED 10/28/02

7540-01-152-8070

VIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83)

Prescribed by GSA  
FAR (48 CFR) 53.243

1. In accordance with Master Contract NAS5-98144, C.7, Technology Refreshment Process, the technology refreshment services referenced below is hereby incorporated into this Delivery Order at a fixed price of \$34,987.00.

SWR #	Subject	Amount
BB53 3010 00 Rev 2	Cable Plant Expansion in B1100 for EPA/GMPO	\$23,574.54
BB53 3010 01 Rev 1	Cable Plant expansion from B1105 to B1106 for EPA/GMPO	\$11,412.46
	TOTAL	\$34,987.00

**2. SWR BB53 3010 00 Rev 2**

The contractor shall provide the labor (including, but not limited to, engineering, configuration management, user coordination/scheduling, wiring/cabling and equipment installation) and materials necessary to install (2) Cat5 wires to 43 locations back to new communications room 230 in B1100 for EPA/GMPO as identified in OAO proposal dated October 25, 2002.

a. The contractor shall perform the following tasks:

- 1) Install (2) Cat5e wires to (43) locations on the 2<sup>nd</sup> floor of B1100.
- 2) Install (1) 6-strand singlemode fiber cable from room 230 to room 241.
- 3) Install (1) 19" x 7' equipment rack in room 230.
- 4) Install (2) vertical wire troughs on 19" x 7' equipment rack in room 230.
- 5) Install (1) ¾" x 4' x 8' sheet of plywood in room 230 for wiring blocks and fiber panel.
- 6) Install (2) fiber LIU's e/w 10A panels and singlemode couplers in room 230 and (2) fiber LIU's e/w 10A panels and singlemode couplers in room 241 to be used for fiber cable.
- 7) Install (2) 48-port T568B Cat5e patch panels on 19" x 7' equipment rack in room 230.
- 8) Install (4) patch cord organizers on 19" x 7' equipment rack.
- 9) Terminate (86) Cat5e station wires on the (2) 48-port patch panels that were installed on the 19" x 7' equipment rack.
- 10) Terminate 6-strand singlemode fiber cable into ST connectors in room 230 and room 241 and place in LIU's that were installed above.
- 11) Terminate (86) Cat5e station wires on (86) Cat5e T568B jacks.
- 12) Install (1) caddy clip at (38) locations to mount faceplate e/w jacks and (5) for wiring to come into (5) cubicles.
- 13) Install (1) Panduit outlet box in (5) cubicles to mount faceplate and jacks.
- 14) Install (43) faceplates e/w with Cat5e jacks.
- 15) Install (1) T1A circuit card in UMC chassis at B1103 to extend T1 over copper cable to B1106.
- 16) Test and label all jacks.
- 17) Redline drawings with jack numbers for OAO draftsman so that he can update drawings.

- b. The contractor shall provide the following material:
- 1) 14,000 feet of Cat5e plenum wire (CMP-00424MAX-6U-05) yellow
  - 2) 200 feet of 6-strand singlemode fiber cable (370-948-SMODE-06)
  - 3) 86 each Avaya MPS100E-123 Cat5e jack (221195)
  - 4) 76 each Avaya 14 feet patch cord (MM14-LU7E-05) yellow
  - 5) 50 each Velcro ties
  - 6) 43 each caddy clips
  - 7) 43 each Avaya M14L-262 faceplate (197613)
  - 8) 43 each Avaya 5-feet patch cord (MM05-LU7E-05) yellow
  - 9) 43 each Avaya 4-feet patch cord (MM04-LU7E-05) yellow
  - 10) 12 each P3020A-Z-125 singlemode ST connectors (157475)
  - 11) 12 each cool cure consumables (142172)
  - 12) 12 each C3000A-2 singlemode ST couplers (105263)
  - 13) 10 each Avaya 25-feet station cord (MM25-LU7e-05) yellow
  - 14) 9 each asbestos disposable suits
  - 15) 6 each asbestos filter cartridges
  - 16) 5 each Panduit deep outlet boxes (205872)
  - 17) 4 each Avaya patch cord organizer (155563)
  - 18) 4 each Avaya 100A3 LIU (146050)
  - 19) 4 each 5-meter ST/SC singlemode fiber jumper (152039)
  - 20) 4 each 10A panel for 100A3 fiber LIU (088980)
  - 21) 2 each double sided vertical trough (166031)
  - 22) 2 each Avaya 48-port patch panels (529479)
  - 23) 2 each 3-meter ST/ST fiber jumpers (151988)
  - 24) 2 each 3-meter ST/SC fiber jumpers (152038)
  - 25) 1 sheet of  $\frac{3}{4}$ " x 4' x 8' plywood
  - 26) 1 each 19" x 84" aluminum equipment rack
  - 27) 1 each 1-meter ST/ST fiber jumper (151986)
  - 28) 1 pack of M20A dust cover (146674)
  - 29) 1 each T1A circuit card for UMC (0110-0192)
- c. Schedule: The completion of this effort shall be (2) two weeks after the receipt of a signed Modification.

**3. SWR BB53 3010 01 Rev 1**

The contractor shall provide the labor (including, but not limited to, engineering, configuration management, user coordination/scheduling, wiring/cabling and equipment installation) and materials necessary to install (1) 12MM/12SM fiber cable from room C-311 in B1105 to room 104 in B1106 and install (1) 6-strand singlemode fiber cable from room C-311 in B1105 from room E-510 in B1105 for EPA/GMPO as identified in OAO proposal dated October 23, 2002.

- a. The contractor shall perform the following tasks:
- 1) Trench between B1105 and B1106 and place 2" PVC conduit.
  - 2) Place 2" rigid conduit up the outside wall of B1105 and B1106.
  - 3) Drill 2" hole in wall of B1105 and B1106 and place rigid conduit thru wall.
  - 4) Place electrical LB on the top of the rigid conduit at B1105 and B1106.

- 5) Cover trench and mound up dirt to keep rain from washing away.
  - 6) Install (1) 12-multimode/12-singlemode-fiber cable from room C-311 in B1105 out to room 104 in B1106.
  - 7) Install (1) 6-strand singlemode fiber cable from room C-311 in B1105 to room E-510 in B1105.
  - 8) Install (2) 200A fiber LIU's e/w (4) 10A panels and (12) C-2000A & (12) C-3000A-2 ST couplers in room C-311 in B1105 and room 104 in B1106.
  - 9) Install (2) 100A fiber LIU's e/w (1) 10A panel and (6) C-3000A-2 ST couplers in room C-311 in B1105 and (6) C-3000A-2 ST couplers in existing fiber panel in room E-510.
  - 10) Terminate all fiber strands in ST connectors and place in LIU's installed above in both buildings.
  - 11) Test and label fiber cables at both ends.
  - 12) Redline drawings with route and give to OAO draftsman to update drawings.
- b. The contractor shall provide the following material:
- 1) 600 feet of 12MM/12SM fiber cable (370-947-HYBRID-12/12)
  - 2) 400 feet of 6SM fiber cable (370-947-SMODE-06)
  - 3) 60 each cool cure consumables (142172)
  - 4) 36 each P3020A-Z-125 singlemode ST connectors (157475)
  - 5) 36 each C3000A-2 singlemode ST couplers (105263)
  - 6) 30 feet of 2" schedule 80 PVC conduit
  - 7) 24 each P2000C-C-125 multimode ST connector (118974)
  - 8) 24 each C2000A multimode ST coupler (088987)
  - 9) 20 feet 2" rigid conduit
  - 10) 10 each 10A panels for LIU's (088980)
  - 11) 4 each Avaya 200A LIU (128826)
  - 12) 3 each 2" PVC couplers
  - 13) 2 each Avaya 100A3 LIU (146050)
  - 14) 2 each 2" Schedule 80 PVC 90
  - 15) 2 each 2" PVC female adapter
  - 16) 2 each 2" electrical LB
  - 17) 1 each 1-meter singlemode fiber jumper ST/SC (152036)
  - 18) 1 each 3-meter singlemode fiber jumper ST/SC (152038)
  - 19) 1 each 1-meter singlemode fiber jumper ST/ST (151986)
- c. Schedule: The completion of this effort shall be (2) two weeks after the receipt of a signed Modification.

3. Part II "Contract Administration Data", Item 4, is revised as indicated below to incorporate the increase of \$34,987.00 for these infrastructure upgrades:

**4. TOTAL DELIVERY ORDER VALUE (through Mod No. 64)**

Ordered Seats and Services	\$ 4,003,454.92
Catalog Actuals	\$ 245,587.54
Specialized Services Actuals	\$ 3,450.00
Infrastructure upgrades	\$ 1,204,933.74
Subtotal	\$ 5,457,426.20
Less credits	\$ (2,173.00)
Less retainage not earned	\$ (52,225.79)
Subtotal	\$ 5,403,027.41
Seats/service levels projected through 11/30/04	\$ 11,769,042.98
<b>Total Estimated Delivery Order Value</b>	<b>\$ 17,172,070.39</b>

4. Part V "Technology Infusion (Infrastructure Upgrades)", Item 2 is modified to include the subject infrastructure upgrades. The signed date and completion date will be completed in a future infrastructure upgrade modification.

Mod. No.	Description of Work	Date Signed	Completion Date	Modification Value
64	BB53 3010 00 Rev 2 Cable Plant expansion in B1100 for EPA/GMPO			\$ 23,574.54
64	BB53 3010 01 Rev 1 Cable Plant expansion from B1105 to B1106 for EPA/GMPO			11,412.46

5. Payment Schedule: Invoicing and Payment for this modification will be made in accordance with Master Contract NAS5-98144, FAR 52.212-4: Commercial Items (May 1997) (Modified).
6. Reporting requirements: The contractor shall provide monthly status reports to the SSC Alternate DOCOTR, with a copy to the DOCO. These reports shall include, as a minimum, installation progress, and potential problem areas.
7. In consideration of the modification agreed to herein as complete equitable adjustment for the changes set forth, the Contractor hereby releases the Government from any and all liability under this delivery order for further equitable adjustments attributable to such facts or circumstances giving rise to these changes.
8. All other terms and conditions of this Delivery Order remain unchanged and in full force and effect.